

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Secondary Education
 Foundation Tier
 June 2010

**Mathematics (Modular)
 (Specification B)**

43053/FB

Module 3 Section B

F

Monday 21 June 2010 9.50 am to 10.35 am

<p>For this paper you must have:</p> <ul style="list-style-type: none"> mathematical instruments <p>You must not use a calculator.</p>	
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Time allowed for Section B

- 45 minutes

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.
- You may **not** use your calculator in Section B. Your calculator must remain on the floor under your seat.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination tag Section A and Section B together with Section A on top.

Information

- The marks for questions are shown in brackets.
- The maximum mark for Section B is 35.
- You may ask for more answer paper. This must be tagged securely to this answer booklet.

Advice

- In all calculations, show clearly how you work out your answer.

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J U N 1 0 4 3 0 5 3 F B 0 1

Answer **all** questions in the spaces provided.

10 (a) Write the number 30 810 in words.

Answer

.....

(1 mark)

10 (b) (i) Write the number two and three-quarters in figures as a mixed number.

Answer (1 mark)

10 (b) (ii) Write the number two and three-quarters in figures as a decimal.

Answer (1 mark)

11 (a) Work out $842 - 317$

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Answer (1 mark)

11 (b) Work out $144 \div 8$.

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Answer (1 mark)



12 (a) This table shows postal prices for large letters at the beginning of 2009.

Weight up to	First class	Second class
100 g	£0.52	£0.42
250 g	£0.78	£0.66
500 g	£1.08	£0.90
750 g	£1.57	£1.31

A large letter weighs 500 g.

How much cheaper was it to send second class instead of first class?

.....

Answer pence (2 marks)

12 (b) This table shows postal prices for packets at the beginning of 2009.

Weight up to	First class	Second class
100 g	£1.14	£0.95
250 g	£1.45	£1.24
500 g	£1.94	£1.63
750 g	£2.51	£2.08
1 kg	£3.08	£2.49
1.25 kg	£4.30	n/a
1.5 kg	£5.00	
1.75 kg	£5.70	
2 kg	£6.40	
4 kg	£8.22	
For each extra 2 kg or part of add	£2.80	

Danielle paid £13.82 to send a packet by post.

Which **one** of the following could be the weight of this packet?

Circle the answer.

5 kg 7 kg 9 kg 11 kg

Explain your answer.

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(3 marks)

10

Turn over ►



13 Here is a list of numbers.

13 15 18 30 45 60

13 (a) Use **three** numbers from the list to make a correct calculation.

Answer + = (2 marks)

13 (b) Find **one** number in the list that is the result of adding two square numbers.

You **must** show your working to support your answer.

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Answer (2 marks)

14 (a) Add 18.8, 0.27 and 6.

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Answer (2 marks)

14 (b) Multiply 3.8 by 4.9

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Answer (4 marks)



- 15** Half the passengers on a plane are flying for the first time.
60% of the passengers flying for the first time are female.
28 males are flying for the first time.

How many passengers are there on the plane altogether?

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Answer (4 marks)

- 16 (a)** Work out $-10 - 2$

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Answer (1 mark)

- 16 (b)** You are given that $-2435 \div -5 = 487$

- 16 (b) (i)** Write down the value of $-2435 \div 5$

Answer (1 mark)

- 16 (b) (ii)** Work out 487×-50

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Answer (2 marks)



17 (a) Work out $\frac{2}{5} - \frac{1}{3}$

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Answer (2 marks)

17 (b) Work out $1\frac{3}{4} \div \frac{5}{7}$

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Answer (2 marks)

18 After a storm the volume of water in a pond increases from 400m^3 to 450m^3 .
Work out the percentage increase.

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Answer % (3 marks)

END OF QUESTIONS



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